

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-023499

(43)Date of publication of application : 21.01.2000

(51)Int.Cl.

H02P 21/00
B60L 9/18
H02P 7/63

(21)Application number : 10-190884

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(22)Date of filing : 06.07.1998

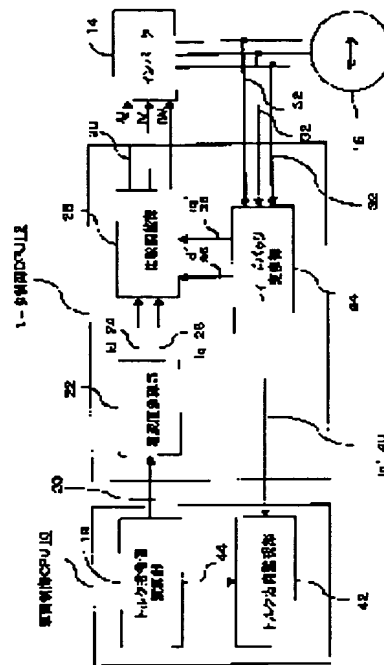
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(54) MOTOR CONTROLLER

(57)Abstract:

PROBLEM TO BE SOLVED: To sense surely the error in the rotational direction of a motor with a simple method, by comparing its sensed torque-current value with its computed torque-command value to monitor the direction of its output torque.

SOLUTION: Converting a torque-command value 20 which is sent from a torque-command-value computing portion 18 to a motor control CPU 12 into Id- and Iq-command values 24, 26 in a current-value computing portion 22, a proportional plus integral computation is applied to the Id- and Iq-command values 24, 26 in a comparing and adjusting portion 28, and the computed two-phase Id-and Iq-command values 24, 26 are further converted into three-phase current-command values 30 to be sent to an inverter 14. Then, sensing output currents sent from the inverter 14 to a motor 16 in the course thereof, they are fed back to the motor control CPU 12 and are converted into sensed Id' and Iq values 36, 38 in a feedback conversion portion 34 to be sent thereafter to the comparing and adjusting portion 28. On the other hand, a sensed Iq' value 40 which has been fed back from the output currents is also sent to a torque-direction monitor portion 42 present in a vehicle control CPU 10 to judge the outputting direction of the motor 16. Thereby, a motor output made in its reverse direction can be judged simply.



LEGAL STATUS

[Date of request for examination]

11.06.2001

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

3397694

[Date of registration]

14.02.2003

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]